

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 1A

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

441	CTG	CTA	GCC	AGC	CAC	CTG	AGC	ACA	GTG	GAG	TCG	GAG	AAA	CAG	AAG	CTG	CGG	486	
L	A	L	A	S	H	L	S	T	V	E	S	E	K	Q	K	L	R	477	
495	GCT	CAG	GTG	CGG	CGG	CTA	TGC	CAG	GAG	AAC	CAG	TGG	CTG	CGG	GAT	GAG	CTG	GCT	540
A	Q	V	R	R	L	C	Q	E	N	Q	W	L	R	D	E	L	A	531	
549	GGC	ACC	CAG	CAG	CGG	CTA	CAG	CGC	AGT	GAA	CAG	GCT	GTG	GCT	CAG	CTG	GAG	GAG	594
G	T	Q	Q	R	R	L	Q	R	S	E	Q	A	V	A	Q	L	E	E	585
603	GAA	AAG	AAG	CAC	CTG	GAG	TTC	CTG	GGG	CAG	CTG	CGG	CAG	TAT	GAT	GAG	GAT	GGA	648
E	K	K	H	L	E	F	L	G	Q	L	R	Q	Y	D	E	D	G	G	639
657	CAT	ACC	TCG	GAG	GAG	AAA	GAA	GCC	GAT	GCC	ACC	AAG	GAT	TCC	CTG	GAT	GAC	CTC	702
H	T	S	E	E	K	E	G	D	A	T	K	D	S	L	D	D	L	G	693
711	TTT	CCT	AAT	GAG	GAG	GAA	GAG	GAC	CCC	AGC	AAT	GGC	TTG	TCC	CGT	GGT	CAA	GGT	756
F	P	N	E	E	E	E	D	P	S	N	G	L	S	R	G	Q	G	G	747
765	GCT	ACA	GCA	GCT	CAG	CAG	GGT	CGA	TAT	GAG	ATC	CCA	GCA	AGG	TTC	CGG	ACG	TTG	810
A	T	A	A	Q	Q	Q	G	G	Y	E	I	P	A	R	L	R	T	L	801

FIGURE 1B

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

FIGURE 1C

819		828		837		846		855		864
CAC	AAC	CTG	GTG	ATC	CAG	TAC	GCA	GCC	CAA	GGT
H	N	L	V	I	Q	Y	A	A	Q	G
							R	R	Y	E
							V	V	E	V
							A	A	V	P
873		882		891		900		909		918
CTC	TGT	AAG	CAG	GCA	CTA	GAG	GAC	CTG	GAG	CGC
L	C	K	Q	A	L	E	D	L	E	ACA
								R	T	TCA
								S	G	GGC
								R	G	CGT
								H	H	CAC
								P	P	CCT
927		936		945		954		963		972
GAT	GTC	GCC	ACC	ATG	CTC	AAC	ATC	CCT	GCT	TTG
D	V	A	T	M	L	N	I	L	A	GAT
								V	V	TAT
								Y	Y	CGT
								R	R	GAC
								D	D	CAG
								Q	Q	AAT
								N	N	AAG
								K	K	ACC
981		990		999		1008		1017		1026
TAT	AAG	GAA	GCT	GCC	CAC	CTG	CTG	AAT	GAT	GCC
Y	K	E	A	A	H	L	L	N	D	CTT
									A	AGC
									L	ATC
									S	CGG
									T	GAG
									R	AGC
1035		1044		1053		1062		1071		1080
TTG	GGA	CCT	GAC	CAT	CCT	GCT	GTG	GCT	GCC	ACA
L	G	P	D	H	P	A	V	A	A	CTC
									T	AAC
									L	AAT
									N	TTG
									N	GCT
									L	GTG
1089		1098		1107		1116		1125		1134
TAT	GGC	AAA	AGG	GGC	AAG	TAC	AAG	GAG	GCA	GAG
Y	G	K	R	G	K	Y	K	E	A	CTT
									E	CTG
									V	CTG
									C	CGG
									Q	GCA
									R	AAA
									A	CAG
1143		1152		1161		1170		1179		1188
GAG	ATT	CGA	GAA	AAG	GTC	CTG	GCC	ACG	AAT	CAT
E	I	R	E	K	V	L	G	T	N	H
									P	D
									V	V
									A	A
									K	K
									Q	Q
									L	L

FIGURE 1C

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

BIOLOGY DEPT. FILE NO. 0161

1197	AAC AAC CTC TGC TGC CTC CTC	1206	1215	1224	1233	1242
N N L A L L C Q N Q G K Y E A V E R	CAG GGC AAC TAT GAG GCC GTG GAA CGC					
1251	TAC TAC CAG CGA CGA CTG GCC ATC TAC GAG GGG CAG	1260	1269	1278	1287	1296
Y Y Q R A L A I Y E G Q L G P D N P	CTG GGG CCG GAC AAC CCT					
1305	AAT GTA GCC CGG ACC AAC AAC AAC CTG GCT TCC TGT	1314	1323	1332	1341	1350
N V A R T K N N L A S C Y L K Q G K	TAC CTG AAA CAG GGC AAA					
1359	TAT GCT GAG GCT GAG ACA CTA TAC AAA GAG ATC CTG	1368	1377	1386	1395	1404
Y A E A E T L Y K E I L T R A H V Q	ACC CGT GCC CAT GTA CAG					
1413	GAG TTT GGG TCT GTG GAT GAT GAC CAC AAG CCC ATC	1422	1431	1440	1449	1458
E F G S V D D D H K P I W M H A E E	TGG ATG CAT GCA GAG GAG					
1467	CGG GAG GAA ATG AGC AAA AGC CGG CAC CAT GAG GGT	1476	1485	1494	1503	1512
R E E M S K S R H H E G G T P Y A E	GGG ACA CCC TAT GCT GAG					
1521	TAT GGA GGC TGG TAC AAG GCC TGC AAA GTG AGC AGC	1530	1539	1548	1557	1566
Y G G W Y K A C K V S S P T V N T T	CCC ACA GTG AAC ACT ACT					

FIGURE 1D

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

FIGURE 1E

1575	CTG AGA AAC	CTG GGA GCT	CTG TAT AGG	CGC CAG GGA AAG	CTG GAG GCT GAG	1602	1611
L R N	L G A	L Y R	R Q G	K L E	A A A	E	
1629	ACC CTG GAG	GAA TGT GCC	CTG CGG TCC	CGG AGA CAG	GGC ACT GAC	CCT ATC AGC	1674
T L E	E C A	L R S	R R Q	G T D	P I	S	
1683	CAG ACG AAG	GTC GCA GAG	CTG CTT GGG	GAG AGT GAT	GGT AGA AGG ACC	TCC CAG	1728
Q T K	V A E	L L G	E S D	G R R	T S	Q	
1737	GAG GGC CCT	GGA GAC ACT	GTG AAA TTC	GAG GGT GAA GAT	GCT TCT GTG GCT	1773	1782
E G P	G D S	V F	E G G	E D A	S V A		
1791	GTG GAG TGG	TCC GGG GAT	GGC AGT GGG	ACC CTG CAG	AGG AGT GGC TCT CTT GGC	1827	1836
V E W	S G D	G D G	T G T	L Q R	S G S	L G	
1845	AAG ATC CGG	GAT GTG CTC	CGC AGA AGC	AGT GAA CTC TTG GTG AGG AAG CTC CAG	1872	1881	1890
K I R	D V L	R R R	S S S	E L L	V R K	L Q	
1899	GGG ACT GAG	CCT CGG CCC	TCC AGC AGC AAC ATG AAG CGA GCA GCC TCC TTG AAC	1917	1926	1935	1944
G T E	P R P	S S S	N M M	R A A	S L A	N	

FIGURE 1E

E₁C₂A₃T₄G₅C₆G₇D₈

1953	TAT	CTG	AAC	CAA	CCT	AGT	GCA	GCA	CCC	CTC	CAG	GTC	TCC	CGG	GGC	CTC	AGT	GCC
	Y	L	N	Q	P	S	A	A	P	L	Q	V	S	R	G	L	S	A
2007	AGC	ACC	ATG	GAC	CTC	TCT	TCA	AGC	AGC	TGA	CAT	TCA	ACC	CGG	CCC	CCA	GGT	CTG
	S	T	M	D	L	S	S	S	S									2052
2061	CTG	GGT	CCC	ACC	CCC	ACA	GCC	CTC	ACA	GCA	TTC	CCC	ATT	GCT	CCT	GGC	TCT	
																		2043
2070	TCC	CCA	CCC	ACC	CCC	ACA	GCC	CTC	ACA	GCA	TTC	CCC	ATT	GCT	CCT	GGC	TCT	
																		2052
2079																		1998
2025	2007	2016	2007	2070	2079	2061	2070	2079	2079	2079	2079	2079	2079	2079	2079	2079	2079	1998
1971	TAT	CTG	AAC	CAA	CCT	AGT	GCA	GCA	CCC	CTC	CAG	GTC	TCC	CGG	GGC	CTC	AGT	GCC
	Y	L	N	Q	P	S	A	A	P	L	Q	V	S	R	G	L	S	A
1980	ACT	CCC	TCC	CTC	TGC	TGT	CTC	ACT	TCA	GGT	CCA	TGT	ATT	TCA	CTT	TTC	TTA	AAT
																		2430
1998																		2421

FIGURE 1F

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

2439 2448
AAA AGA ATC AGT NCT TNT NTN NG 3'

FIGURE 1G

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DRAFTSMAN	CLASS	SUBCLASS

EEC DESIGN INTEG

1 M S G L V L G Q R D E P A G H R L S Q E E I L G S T R L V S 2479739
 1 M S T M V Y I K E D K L - - E K L T Q D E I I S K T K Q V I GI 307085

31 Q G L E A L R S E H Q A V L Q S L S Q T I E C L Q Q G G H E 2479739
 29 Q G L E A L K N E H N S T L Q S L L E T L K C L K K D D - E GI 307085

61 E G L V H E K A R Q L R S M E N I E L G L S E A Q V M L A 2479739
 58 S N L V E E K S N M I R K S L E M L E L G L S E A Q V M M A GI 307085

91 L A S H L S T V E S E K Q K L R A Q V R R L C Q E N Q W L R 2479739
 88 L S N H L N A V E S E K Q K L R A Q V R R L C Q E N Q W L R GI 307085

121 D E L A G T Q Q R L Q R S E Q A V A Q L E E K K H L E F L 2479739
 118 D E L A N T Q Q K L Q K S E Q S V A Q L E E K K H L E F M GI 307085

151 G Q L R Q Y D E D G H T S E E K E G D A T K D S L D D L F P 2479739
 148 N Q L K K Y D D D T D S P S E D K D T D S T K E P L D D L F P GI 307085

181 N E E E D P S N G L S R G Q G - - A T A A Q Q G G Y E I P 2479739
 178 N D E D - D P G Q G I Q Q H S S A A Q Q G G Y E I P GI 307085

FIGURE 2A

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

FIGURE 2B

209	A R L R T L H N L V I Q Y A A Q G R Y E V A V P L C K Q A L	2479739
207	A R L R T L H N L V I Q Y A S Q G R Y E V A V P L C K Q A L	GI 307085
239	E D L E R T S G R G H P D V A T M L N I L A L V Y R D Q N K	2479739
237	E D L E K T S G H D P D V A T M L N I L A L V Y R D Q N K	GI 307085
269	Y K E A A H L L N D A L S I R E S T L G P D H P A V A A T L	2479739
267	Y K D A A N L L N D A L A I R E K T L G K D H P A V A A T L	GI 307085
299	N N L A V L Y G K R G K Y K E A E P L C Q R A L E I R E K V	2479739
297	N N L A V L Y G K R G K Y K E A E P L C K R A L E I R E K V	GI 307085
329	L G T N H P D V A K Q L N N L A L L C Q N Q G K Y E A V E R	2479739
327	L G K D H P D V A K Q L N N L A L L C Q N Q G K Y E E V E Y	GI 307085
359	Y Y Q R A L A I Y E G Q L G P D N P N V A R T K N N L A S C	2479739
357	Y Y Q R A L E I Y Q T K L G P D D P N V A K T K N N L A S C	GI 307085
389	Y L K Q G K Y A E A E T L Y K E I L T R A H V Q E F G S V D	2479739
387	Y L K Q G K F K Q A E T L Y K E I L T R A H E R E F G S V D	GI 307085

FIGURE 2B

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

419 D D H K P I W M H A E E R E E M S K S R H H E G G T P Y A E 2479739
 417 D E N K P I W M H A E E R E E - C K G K Q K D G - T S F G E GI 307085

449 Y G G W Y K A C K V S S P T V N T L R N L G A L Y R R Q G 2479739
 445 Y G G W Y K A C K V D S P T V T T L K N L G A L Y R R Q G GI 307085

479 K L E A A E T L E E C A L R S R R Q G T D P I S Q T K V A E 2479739
 475 K F E A A E T L E E A A M R S R R K Q G L D N V H K Q R V A E GT 307085

509 L L G E S D G - - - R R T S Q E G P G D S V K F E - - - - G 2479739
 505 V L N D P E N M E K R R S R E S L N V D V V K Y E S G P D G GI 307085

532 G E D A S V A V E W S G D G S G T L Q R S G S L G K I R D V 2479739
 535 G E E V S M S V E W N G G V S G - - - R A S F C G K R Q Q - GI 307085

562 L R R S S E L L V R K L Q G T E P R P S S S N M K R A A S L 2479739
 561 - - - - - - - - - Q Q W P G R R H R GT 307085

592 N Y L N Q P S A A P L Q V S R G L S A S T M D L S S S S 2479739
 569 GI 307085

FIGURE 2C